

Title (en)

Process and device for the chemical pretreatment of wastewater

Title (de)

Verfahren und Anlage zur Vorbehandlung von Abwässern durch Chemikalieneinsatz

Title (fr)

Procédé et dispositif pour le prétraitement chimique des eaux usées

Publication

EP 1413556 A1 20040428 (DE)

Application

EP 03023456 A 20031018

Priority

- DE 10249088 A 20021021
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Abstract (en)

Prior to a water treatment process, effluent industrial water is first subjected to chemical analysis. In a pre-treatment process, the untreated water is held in a shaft with a dosing station for the admixture of potassium permanganate, oxide groups and carbonate products. The relative proportions of these agents is determined by initial chemical analysis. The admixed chemicals consist essentially of granular calcium carbonate (71.2), magnesium oxide (0.5) and potassium permanganate (33.5), plus non-toxic trace elements. In the start-up phase the chemicals are admixed at a rate of approximately 60 g/m within a waste water collection or holding system. After three to four weeks the rate at which chemical are admixed is reduced to 30-20 g/m³. Also claimed is a commensurate water pre-treatment plant with a water holding shaft incorporating a hopper and dosing unit for the chemical agents.

Abstract (de)

Die Erfindung betrifft eine Verfahrenstechnologie, welche dazu dient, die Vorbehandlung von Abwässern durch die Entwicklung eines neuen chemischen Stoffgemisches und die Dosierung in granulierter Form und Schachteinbauweise der Anlage als Standardvariation oder mit intelligenter Regelung zur Erfassung von Fremdeinflüssen durchzuführen. Hauptzweck des Verfahrens und der Anlage ist die Beseitigung von Geruchsemissionen und Verhinderung von Korrosion in abwassertechnischen Anlagen. <IMAGE>

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IPC 8 full level

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Citation (search report)

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